

AMENDMENTS TO THE CLAIMS

1.-20. (Canceled)

21. (Currently Amended) A method of inhibiting or preventing *Ehrlichia canis* infection in a subject comprising the steps of:

identifying a subject prior to exposure or suspected of being exposed to or infected with *Ehrlichia canis*; and

administering a composition comprising a the polypeptide of SEQ ID NO:46 in an amount effective to inhibit *Ehrlichia canis* infection.

22. (Currently Amended) The method of claim 21, wherein said SEQ ID NO:46 is encoded by a the polynucleotide of SEQ ID NO:45.

23. (Currently Amended) The method of claim 21, wherein said ~~SEQ ID NO:46~~ polypeptide is dispersed in a pharmaceutically acceptable carrier.